PATENT COOPERATION TREATY

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference P04-112		4	URTHER ACTION	See Form PCT/IPEA/416			
International application No.		Internation	onal filing date (day/month	/year) Priority date (day/month/year)			
PCT/JP2004/014123 1		123 17.0	09.2004	19.09.2003			
		n (IPC) or national classi /352, 31/59	fication and IPC 13, 35/78, A6	51P1/02			
SUNSTA	R INC.						
			amination report, established according to Article 36.	ed by this International Preliminary Examining Authority			
2. This I	REPORT consists	of a total of 5	shee	ets, including this cover sheet.			
3. This r	eport is also accor	mpanied by ANNEXES,	, comprising:				
а. 🗆	(sent to the	applicant and to the Inte	ernational Bureau) a total c	of sheets, as follows:			
	sheets			have been amended and are the basis for this report and/or rity (see Rule 70.16 and Section 607 of the Administrative			
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
ь. Г	_	International Rureau or	dul a total of (indicate tune	and number of electronic carrier(s))			
о	(sent to the	тиетиноны вичени от	ry) a total of (findicate type				
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This r	report contains ind	lications relating to the f	following items:				
\boxtimes	Box No. I	Basis of the report					
	Box No. II	Priority					
			opinion with regard to nov	velty, inventive step and industrial applicability			
	Box No. IV	Lack of unity of inver	ntion				
\boxtimes	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
	Box No. VI	Certain documents cit	ted				
Box No. VII Certain defects in the international			international application				
	Box No. VIII	Certain observations	on the international applica	ation			
Date of submis	sion of the deman	d	Date of comp	pletion of this report			
Name and mailing address of the IPEA/JP			Authorized o	officer			
Engsimile No.			Telephone N	io.			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/014123

n	No. I P. C.	ronort							
Box	k No. I Basis of the	report							
1.	With regard to the language indicated under this item.	ge, this report is based on the internation	onal application in the language in which i	t was filed, unless otherwise					
	This report is based on translations from the original language into the following which is the language of a translation furnished for the purposes of:								
	international s	earch (Rule 12.3 and 23.1(b))							
		the international application (Rule 12.4	1)						
		oreliminary examination (Rule 55.2 and							
2.	receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not anne								
	this report):	olication as originally filed/furnished							
1	the international app								
				as originally filed/furnished					
	pages	- 		orranging incurturnished					
	pages*		received by this Authority on						
Ī	the claims:								
Ī	nos.			as originally filed/furnished					
	nos.*		as amended (together with a	any statement) under Article 19					
	nos.*		received by this Authority on						
	•		received by this Authority on						
	the drawings:								
				as originally filed/furnished					
	sheets		received by this Authority on	_					
			<u> </u>						
	a sequence listing as	nd/or any related table(s) - see Supplen	nental Box Relating to Sequence Listing.						
3.	The amendments ha	we resulted in the cancellation of:							
	the description	n, pages							
	the claims, no								
	the drawings,	-							
									
,	, .,		dments annexed to this report and listed						
4.	they have been cons	sidered to go beyond the disclosure as f	dments annexed to this report and listed filed, as indicated in the Supplemental Box	x (Rule 70.2(c)).					
	the description	n, pages							
	the claims, no	os							
	the drawings,	sheets/figs							
		elated to sequence listing (specify):							
		all of those sheets may be marked "sup	perseded."						

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Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability									
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:									
the entire international application									
claims Nos. 7-11									
because:									
the said international application, or the said claims Nos. 7-11 relate to the following subject matter which does not require an international preliminary examination (specify):									
The subject matter set forth in claims 7 to 11									
pertains to a method of treatment of the human body by									
therapy or surgery, and diagnostic methods.									
the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):									
the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.									
no international search report has been established for said claims Nos. 7-11									
the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:									
the written form has not been furnished									
does not comply with the standard									
the computer readable form has not been furnished									
does not comply with the standard									
the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.									
See Supplemental Box for further details.									

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International application No.
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Box		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement					
	Novelty (N)	Claims	6	YES		
		Claims	1-5	NO		
Inventive step (IS)		Claims		YES		
		Claims	1-6	NO		
	Industrial applicability (IA)	Claims	1-6	YES		
		Claims		NO		

- 2. Citations and explanations (Rule 70.7)
 - Document 1: JP 11-243910 A (Sunstar, Inc.), 14 September 1999
 - Document 2: JP 2002-121133 A (Sunstar, Inc.), 23 April 2002
 - Document 3: JP 2002-121146 A (Sunstar, Inc.), 23 April 2002
 - (i) The inventions set forth in claims 1 to 5 lack novelty and do not involve an inventive step in the light of documents 1, 2 and 3.

Document 1 sets forth a food composition for prevention of periodontal disease and for prevention of progress of periodontal disease (claim 1, embodiments, etc.). Document 1 also indicates that said composition is efficiently accumulated in alveolar bone tissue after calcium has been absorbed in the body after passing through the bowel, and that said composition is effective in preventing periodontal disease and preventing progress of periodontal disease (paragraph [0008]). Moreover, genistein and daidzein are given as examples of isoflavone extracts (paragraph [0011]).

Document 2 sets forth a tablet dissolving in the oral cavity for prevention of periodontal disease,

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

containing soybean isoflavone extract, calcium and vitamin D_3 (claim 1, embodiments). In addition, isoflavone glycoside is given as an example of soybean isoflavone extract (paragraph [0012]).

Document 3 sets forth a preparation for prevention of periodontal disease, containing soybean isoflavone aglycon, calcium and vitamin D_3 (claim 1, embodiments). Document 3 also indicates that said preparation is a preparation for prevention of periodontal disease, which is particularly effective in post-menopausal women and people who are susceptible to lowering bone density, based on the activity of suppressing alveolar bone absorption of soybean isoflavone aglycon (paragraph [0031]).

(ii) The invention set forth in claim 6 does not involve an inventive step in the light of documents 1 to 3 cited in the international search report.

In the inventions set forth in documents 1 to 3, a person skilled in the art would be able to adjust and optimize as necessary the percentage of daidzein and genistein contained in soybean isoflavone aglycon, and said technical matter does not offer a special effect.